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23 July 1962

	MEMORANDUM FOR THE RECORD		
25X1A	SUBJECT: Trip Report 18-19 July 1962 Wright-Patterson AFB and Eastman Lincoln Facility		
	PURPOSE : Examine results of X-15 hot window photography and orientation on Lincoln Facility.		
25X1A	l. Visited at ASD, 18 July, regarding subject program and future wind tunnel tests of photographic windows at high altitudes and speeds.		
25X1A	a. Recent flight of X-15 at 100,000 feet and M=3 yielded good photographic results throughout early part of flight profile. About 3 minutes after drop off an unsharp line developed about 20% of the distance in from the left side of the format and progressed laterally across the flight direction leaving a rhomboid pattern of low resolution (about 5 lines/mm) obscuring the central portion of the format. The edges of the format were sharp, approaching 90 lines/mm. is confident that this degradation was caused by pressure on the corrector plate of the camera applied by the shrinking of a stainless steel positioning collar as the camera compartment dropped in temperature to 20°F. Another X-15 flight is scheduled in the near future at 70,000 feet altitude straight and level.		
	b. The Air Force does not have any immediate plans for wind tunnel tests to explore photographic windows at high temperatures and in non laminar flaw conditions until next year.		
25X1A	said that if the money was available he could probably		
25X1A	let a contract and get some results in about two months depending upon availability of windows. test time and complexity of instrumentation		
25X1A	He recommended , to conduct the tests possibly wit as a consultant. would monitor project.		
25X1A			
25X1A	2. 19 July visited Lincoln Facility. Rochester. New York. and discussed program with		
25X1	a. V/H sensor has been breadboarded and Eastman will approve design during week ending 27 July. If approval is given		

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25X1	sensor will be delivered end of December. Eastman Kodak would like permission to havemake three parts of all components since set up time for making one only part runs over-all cost up		
25X1A	and the other two units can b	e delivered about three months earlier.	
	b. Processing at X and L	facilities:	
	Production rate 24 hours period and facilities	d manpower requirements at X and L	
	Facility	Facility	
	X	L	
	2 negative processing machines Capability 55,000 1/24 hrs	2 negative processing machines 28,800 1/24 hrs	
	2 dupe machines 144,000°/24 hrs Estimated operating time .95 136,800°	4 dupe machines 144,000°/24 hrs Estimated operating time75 108,000°/24 hrs	
	•	less 15% rejection=91,800°/24 hrs.	
25X1A			
	Comments - Capacity of negative mac	hines is not significant since rate is	
25X1A	much higher than is needed.		
25X1A 25X1A			
		OSA-DD/R	

Distribution: 1-DD/OSApr&v6/DD/ORAle3682/03/01/24DD/ON-RDB67B00511R000100110060-3 ELT:rel